



7F8

MEDIUM-MU TWIN TRIODE

7F8

GENERAL DATA

Electrical:

Heater, for Unipotential Cathodes:

Voltage. 6.3[□] ac or dc volts
 Current. 0.3^{□□} amp

Direct Interelectrode Capacitances:

Each Unit:

Grid to Plate. 1.2* $\mu\mu\text{f}$
 Grid to Cathode. 2.8* $\mu\mu\text{f}$
 Plate to Cathode. 1.4* $\mu\mu\text{f}$
 Heater to Cathode. 2.8** $\mu\mu\text{f}$
 Grid to Grid 0.1 max.* $\mu\mu\text{f}$
 Plate to Plate 0.5 max.* $\mu\mu\text{f}$

* With external shield connected to cathode.

** With external shield connected to ground.

Mechanical:

Mounting Position. Any

Maximum Overall Length 2-9/32"

Maximum Seated Length. 1-3/4"

Maximum Diameter 1-3/16"

Bulb T-9

Base Lock-in 8-Pin

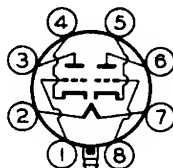
Basing Designation for BOTTOM VIEW 8BW

Pin 1 - Grid of
Unit No.2

Pin 2 - Heater

Pin 3 - Plate of
Unit No.2Pin 4 - Cathode of
Unit No.2Pin 5 - Cathode of
Unit No.1Pin 6 - Plate of
Unit No.1

Pin 7 - Heater

Pin 8 - Grid of
Unit No.1Plug - Base
ShellAMPLIFIER - Class A₁

Values are for each unit

Maximum Ratings, Design-Center Values:

PLATE VOLTAGE. 300 max. volts

PLATE DISSIPATION (Total for both units) 3.5 max. watts

GRID VOLTAGE:

Positive bias value. 0 max. volts

PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode 90 max. volts

Heater positive with respect to cathode 90 max. volts

Characteristics:

Plate Voltage. 250 . . . volts

Cathode-Bias Resistor. 500 . . . ohms

Amplification Factor 48

□ Nominal voltage = 7.0 volts.

□□ Nominal current = 0.32 ampere.

DEC. 30, 1947

TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

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Plate Resistance (Approx.)	14500	..	ohms
Transconductance	3300	..	μ hos
Plate Current.	6	..	ma
Grid Bias for plate current of 10 μ a (Approx.)	-11	..	volts

Maximum Circuit Values (for maximum rated conditions):

Grid-Circuit Resistance:

For cathode-bias operation 0.5 max. megohm

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